REPLACEMENT SHEET Application Serial No. 09/653,406 Art Unit 1618

CysNO

F16.

+ HZV-CH-8-OH ACRL-PEG-Cys SHO CAS ೧೫೭ === ೧೫೦೦----(೧೫೭೧೪೨೦) ಗ್ಲಾ ೧೫೭೮೫ ರಿಂಗ್ನ STZ 1. Synthesis of copolymer PEG ACRL

ACRL "PEG-CysNO PH 23 Formation of S-nitrosocysteine ACRL -PEG - Cys + NaNO2 esi.

Photopolymerization

ACRL-PEG-CysNO + cH2=cHco-(CH2cH20) - OCHC=CH2 PEG(ACRL)2 phenylacetophenone + 2,2-Dimethoxy-2-3. Photopolymerization

4. Release of NO

ON + S-S

pH 7.4

Cysko

(Lys-[N(O)NO]-)

3

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F16. 2

ACRL-PEG-Lyss (CH₂)₄ MH2 Ţ-0 22 1. Synthesis of copolymer PEG ACRE

ACRL-PEG-(Lys-[N(O)NO]")5 2. Formation of NO-nucleophile complex ACRIL - PEG - Lyss + NO gas in H20

3. Photopolymerization

PEG(ACRL)2 CH2 LCHO ACRL-PEG-(Lys-[N(O)NO]-)5+ + 2, 2-Dimethoxy-2phenylacetophenane

(Lys-[N(O)NO]-) 4. Release of NO

Lyse + (ZNO)

US2000 10278119.1

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F16. 3

Synthesis of capalymer

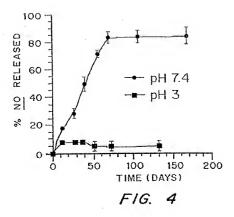
DETA + 2NO

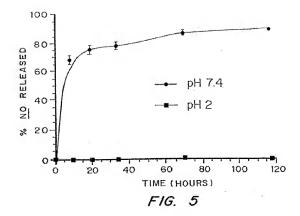
PH 7.4

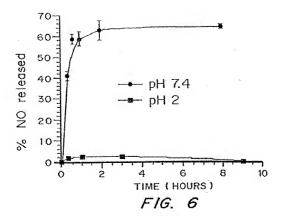
DETA- [NICHO] -

Release of NO

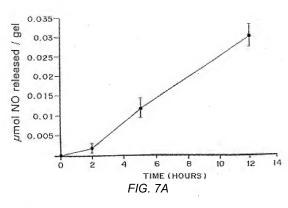
Q.

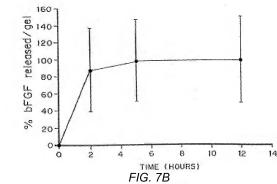


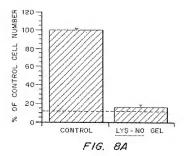


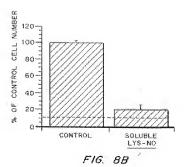


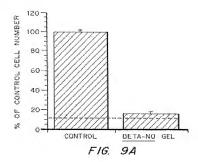
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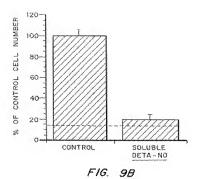












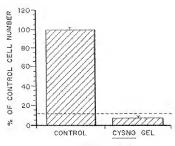


FIG. 10A

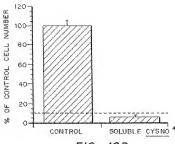


FIG. 10B

